Title (en)

LITHIUM OXIDE-BASED AMORPHOUS IONIC CONDUCTOR

Publication

EP 0104936 B1 19860409 (EN)

Application

EP 83305771 A 19830927

Priority

JP 16836182 A 19820929

Abstract (en)

[origin: EP0104936A1] A lithium oxide-based amorphous ionic conductor has a ternary composition consisting of Li2O, SiO2 and ZrO2, said composition falling within the range of a quadrilateral on a composition diagram defined by two lines corresponding to the Li2O contents of 80% and 50%, respectively, and by two lines which pass through the 100% Li2O apex and on which a ratio SiO2:ZrO2 is 100:0.5 and 1:9, respectively. The conductor is used as a solid electrolyte in the form of a high ionic conductive amorphous thin film.

IPC 1-7

H01B 1/08

IPC 8 full level

G02F 1/15 (2006.01); **H01B 1/06** (2006.01); **H01B 1/08** (2006.01); **H01B 5/14** (2006.01); **H01B 13/00** (2006.01); **H01G 9/02** (2006.01); **H01G 9/025** (2006.01); **H01M 6/18** (2006.01)

CPC (source: EP US)

G02F 1/1525 (2013.01 - EP US); **H01B 1/08** (2013.01 - EP US); **H01G 9/025** (2013.01 - EP US); **H01M 6/185** (2013.01 - EP US)

Citation (examination)

PATENT ABSTRACTS OF JAPAN, unexamined applications, section E, vol. 6, no. 136 (E-120) (1014), July 23, 1982, THE PATENT OFFICE JAPANESE GOVERNMENT, page 8 E120, Kokai-no. 57-60669 (HITACHI)

Cited by

EP0386350A1; EP0797788A4; AU594107B2; EP0718247A4

Designated contracting state (EPC)

CH DE FR GB LI NL

DOCDB simple family (publication)

EP 0104936 A1 19840404; **EP 0104936 B1 19860409**; DE 3362938 D1 19860515; JP H0361286 B2 19910919; JP S5960814 A 19840406; US 4474686 A 19841002

DOCDB simple family (application)

EP 83305771 A 19830927; DE 3362938 T 19830927; JP 16836182 A 19820929; US 53583483 A 19830926